TCCATGCTGCACTGTGTGGCCAACCCCATCCTCTACAACTTTCTCAGCCCGAGCTTCCGGGG.
CCGACTGCTGAGCCTTGTGGTTCGTTACCTTCCCAAGGAGCAGGCCAGGGCAGCAGGTGGTC
GTGCCTCCTCTTCTTCTTCCACCCAGCACTCCATCATCATTACCAAAGAGGGCAGCCTGCCC
GCTGCAGCGGATCTCCACACCCACCCCATCCGAAACGTTCAGGCGTCCTCTCCGCCTCCAAA
CACCTCACCTACACTCTGCAATTCCGTAGCCAGCTAAGGTAGACTCTAGCTTCCTCCACCAA
TAAGAAAGTTCAGAGGGGGATGCGAGAGGTCTGTGGGAGGGGGTGGGAAGGACTGGCTTGTT
CAGGGCCAATTTAAGTATATCAAAACGTTGCTGTGGGGAGAGGGAAACGGTTCGGGAAGGAC
AGAGAATGGATCTTTCCTTGATAGTACACTATTTGTTTGGGTACTGATGTCTAAGGGAGCCA
CACCGGTGGGGCGTGGGGGGTGGGGAAGCG (SEQ ID NO:1)

FIGURE 1

underlined = deleted in targeting construct

[ ]= sequence flanking Neo insert in targeting construct

[TCCATGCTGCACTGTGTGGCCAACCCCATCCTCTAC]AACTTTCTCAGCCCGAGCTTCC
GGGGCCGACTGCTGAGCCTTGTGGTTCGTTACCTTCCCAAGGAGCAGGCCAGGGCAGCAG
GTGGTCGTGCCTCCTCTTC[TTCTTCCACCCAGCACTCCATCATCATTACCAAAGAGGGC
AGCCTGCCCGCTGCAGCGGATCTCCACACCCACCCCATCCGAAACGTTCAGGCGTCCTCT
CCGCCTCCAAACACCTCACCTACACTCTGCAATTCCGTAGCCAGCTAAGGTAGACTCTAG
CTTCCTCCACCAATAAGAAAGTTCAGAGGGGGATGCGAGAGGTCTGTGGGAGGGGGTGGG
AAGGACTGGCTTGTTCAGGGCCAATTTAAGTATATCAAAACGTTGCTGTGGGGAGAGGGA
AACGGTTCGGGAAGGACAGAGAATGGATCTTTCCTTGATAGTACACTATTTGTTTGGGTA
CTGATGTCTAAGGGAGCCACACCGGTGGGGCGTGGGGGGTGGGGAAGCG]

FIGURE 2A

Gene Sequence Structure *

| 37 bp | Sequence Deleted | 137 bp |

Size of partial cDNA: 526 bp

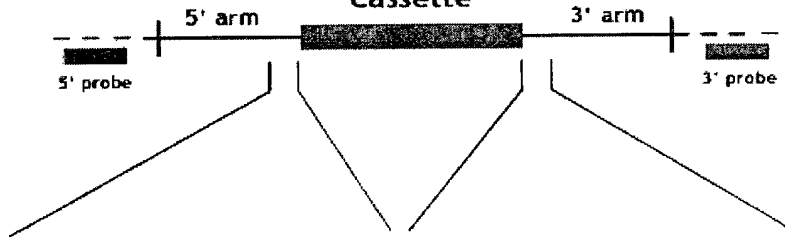**Targeting Vector* (genomic sequence)**

Construct Number: 3267

LacZ-Neo
Cassette

5' arm   3' arm

5' probe   3' probe

Arm Length:
5': 2.5 kb
3': 1.8 kb

——— Targeting Vector
- - - - - Endogenous Locus

* Not drawn to scale

5'>GGCGCCACTGCCTGTTGATGT GGGCTTACATAGTTGTCTTTGCCA TCTGCTGGCTGCCCTACCAAGTGA CTATGCTGCTGCTCACTCTGCACG GGACCCACATCTTCCTCCACTGTC ACCTGGTTAACCTTCTCTACTTCT TCTACGAAATCATCGACTGCTTTT CCATGCTGCACTGTGTGGCCAACC CCATCCTCTAC<3' (SEQ ID NO:2)	5'>TTCTTCCACCCAGCACTCCAT CATCATTACCAAAGAGGGCAGCCT GCCCGCTGCAGCGGATCTCCACAC CCACCCCATCCGAAACGTTCAGGC GTCCTCTCCGCCTCCAAACACCTC ACCTACACTCTGCAATTCTGTAGC CAGCTAAGGTAGACTCTAGCTTCC TCCACCAACAAGAAAGTTCAGAGG GGGATGCGAGA<3' (SEQ ID NO:3)

FIGURE 2B